

ABSTRACT

An alternator for an automotive vehicle is substantially composed of a housing, a rotor having a field coil and a stator having stator coils. A cooling fan is connected to an axial end of the rotor. The stator is fixedly disposed in the housing and the rotor is rotatably supported in the housing. According to rotation of the rotor, alternating current is generated in the stator coils, and the alternating current is rectified into direct current to charge an on-board battery. Inlet ports for introducing cooling air into the housing are formed between spokes formed on an axial end wall of the housing. The spokes are slanted in the direction opposite to the rotational direction of the rotor relative to the radial direction to thereby reduce airflow noise generated around the spokes.